THE OFFICIAL WESTSAT COMMUNICATIONS

SATELLITE CHANNEL CHART®

THE MOST ACCURATE AND UP-TO-THE-MINUTE LISTING OF ALL VIDEO AND ANALOG SUBCARRIER AUDIO PROGRAMMING SERVICES ON THE NORTH AMERICAN C & KU BAND SATELLITES

Vol. 6, No. 1 JANUARY/FEBRUARY 1986 Issued 1-15-86

HUGHES GALAXY 1 (134°W)

Polarization: ODD—Horizontal EVEN—Vertical

TR—1	**HBO** (Home Box Office) not in use
	USA NETWORK PROMO CHANNEL (6.8)
	USA NETWORK PROMO CHANNEL (6.8)
TR—2	**THE NASHVILLE NETWORK**—premium country music/entertainment (5.58 & 5.76 discrete stereo/6.8 mono)
TR—3	**WGN-TV,** Chicago—Midwest's leading independent station (6.8)
TR—4	**THE DISNEY CHANNEL** (East)—premium family entertainment from the Disney studios (5.8 & 6.8 matrix stereo)
TR—5	**SHOWTIME** (East)—first-run movies & entertainment specials (6.8)
TR—6	**SIN** (Spanish International Network) (6.8)
TR—7	**CNN** (Cable News Network)—24hr/day news (6.8)
TR—8	**CNN HEADLINE NEWS**—CNN newsbrief headline service (6.8)
TR—9	**ESPN**—24 hr/day sports programming/Nation's Business News (5.58 & 5.76 discrete stereo/6.8 mono)
TR—10	**THE MOVIE CHANNEL** (East)—24-hr/day first-run movies (5.8 & 6.8 matrix stereo)
TR—11	**CBN CABLE NETWORK** —religious/general family entertainment (6.8)
TR—12	**REQUEST TV**—24 hr/day pay-per-view movie service (fully encrypted M/A-COM VIDEOCYPHER II)
TR—13	**C-SPAN**—live coverage from the House of Representatives (6.8)
TR—14	**THE MOVIE CHANNEL** (West)—24hr/day first run movies (5.8/6.8 matrix stereo)
TR—15	**WOR-TV,** Secaucus, New Jersey—the Northeast's top-rated independent station (6.8)
TR—16	**SHOWTIME/ENCRYPTION TEST CHANNEL**—full-time VIDEOCYPHER II encryption testing
TR—17	**PTL-THE INSPIRATIONAL NETWORK** (People That Love)—religious (5.58 & 5.76 discrete stereo/6.8 mono)
TR—18	**WTBS**, Atlanta—Ted Turner's Superstation (5.58 & 5.76 discrete stereo/6.8 mono)
TR—19	**HOME BOX OFFICE CINEMAX** (East)—time-structured HBO (6.8) (fully encrypted M/A-COM VIDEOCYPHER II)
TR—20	**GALAVISION**—premium Spanish oriented entertainment programming (6.8)
TR—21	**USA NETWORK** (East)—syndicated variety and sports events programming (5.58 & 5.76 discrete stereo/6.8 mono) (begins 1-27-86)
TR—22	**DISCOVERY NETWORK**—science/nature documentary programming (6.8)
TR—23	**HBO** (Home Box Office)(East)—first run movies, sports events and entertainment specials (6.8) (fully encrypted M/A-COM VIDEOCYPHER II)
TR—24	**THE DISNEY CHANNEL** (West)—premium family entertainment from the Disney studios (5.8 & 6.8 matrix stereo)

Audio Subcarrier Services on GALAXY 1

TR—3	**MOODY BROADCASTING NETWORK**—religious (5.4/7.92 discrete stereo)
	SATELLITE MUSIC NETWORK/STARSTATION—adult contemporary format (5.58/5.76 discrete stereo)
	SATELLITE MUSIC NETWORK/COUNTRY COAST-TO-COAST—modern country format (5.94/6.12 discrete stereo)
	WFMT (FM) Chicago—fine arts/classical radio (6.3/6.48 discrete stereo)
	SATELLITE MUSIC NETWORK/STARDUST—traditional MOR music format (7.38/7.56 discrete stereo)
TR—7	**CNN RADIO NETWORK**—all news radio feed (6.3)

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TR—13 **STUDIOLINE/ALL TIME FAVORITES** (5.4/5.58 discrete stereo)
STUDIOLINE/EASY LISTENING (5.76/5.94 discrete stereo)
STUDIOLINE/THE CLASSICS (6.12/6.3 discrete stereo)
STUDIOLINE/HIT COUNTRY (7.38/7.56 discrete stereo)
STUDIOLINE/SUPERHITS! (7.74/7.92 discrete stereo)

TR—15 **WQXR (FM)** New York—classical radio format (6.3/6.48 discrete stereo)
THE GREEK NETWORK—Greek ethnic radio format (7.335 mono)

RCA SATCOM 3R (131°W)

Polarization: ODD—Vertical
EVEN—Horizontal

TR—1 **NICKELODEON** (East)—premium children's programming (6.8)
ARTS & ENTERTAINMENT (Alpha Repertory Television Service)—performing and cultural arts programming (5.58 & 5.76 discrete stereo/6.8 mono)

TR—2 **PTL-THE INSPIRATIONAL NETWORK** (People That Love)—religious (5.58 & 5.76 discrete stereo/6.8 mono)

TR—3 **TBN** (Trinity Broadcasting Network)—religious (6.8)

TR—4 **FNN** (Financial News Network)—financial/business reporting with stock market readings (6.8)
SCORE—cable sports news/update service (6.8)

TR—5 **VIEWER'S CHOICE**—24 hr/day pay-per-view movie service (fully encrypted/M/A-COM VIDEOCYPHER II)

TR—6 **SPN** (Satellite Program Network)—variety entertainment (7.38 & 7.56 discrete stereo/6.8 mono)

TR—7 **ESPN BLACKOUT NETWORK & PROMO CHANNEL**—part-time alternate sports programming for regional blackout applications (6.8)

TR—8 **CBN CABLE NETWORK**—religious/general family entertainment (6.8)

TR—9 **USA NETWORK**—syndicated variety and sports events programming (West) (5.58 & 5.76 discrete stereo/6.8 mono)

TR—10 **SHOWTIME** (West)—first-run movies, entertainment specials (6.8)

TR—11 **MTV** (Music Television)—Pop/Rock Video (5.8 & 6.62 matrix stereo)

TR—12 **THE MOVIE CHANNEL ENCRYPTION TEST CHANNEL**—part-time M/A-COM VIDEOCYPHER II encryption testing

EWTN (Eternal Word TV Network)—religious (6.8)

TR—13 **HBO** (Home Box Office)(West)—first-run movies, sports & entertainment specials (fully encrypted M/A-COM VIDEOCYPHER II) (6.8)

TR—14 **CNN** (Cable News Network)—incoming regional bureau news feeds (6.2/6.8)

TR—15 **VH-1** (Video Hits One)—adult contemporary music video (6.8 mono/7.4 digital stereo)

TR—16 **ACSN—THE LEARNING CHANNEL** (Appalachian Community Service Network)—educational (6.8)
HTN PLUS (Home Theatre Network)—first-run G and PG movies (6.8 multiplex stereo)

TR—17 **LIFETIME**—health and personal improvement programming (6.2/6.8)

TR—18 **REUTER'S MONITOR SERVICE**—commodity/stock market information (digital video)
NJT (National Jewish Television)—religious (6.8)

TR—19 **C-SPAN**—not in use

TR—20 **BET** (Black Entertainment Network)—black-oriented variety entertainment, sports events & music videos (6.8/7.38 discrete stereo)

TR—21 **THE WEATHER CHANNEL**—24 hr/day national & regional weather/environmental reporting (6.8)

TR—22 **MSN-THE INFORMATION CHANNEL** (Modern Satellite Network)—general informational entertainment (6.8)

HSC (Home Shopping Club)—shop-at-home service (6.2/6.8)

TR—23 **HBO CINEMAX** (West)—time-structured HBO (6.8) (fully encrypted M/A-COM VIDEOCYPHER II)

TR—24 **ARTS & ENTERTAINMENT** (Alpha Repertory Television Service)—performing and cultural arts programming (5.58 & 5.76 discrete stereo / 6.2/6.8 mono)

Audio Subcarrier Services on SATCOM 3R

TR—2 **SATELLITE RADIO NETWORK**—contemporary/religious format (6.2)

TR—3 **SATELLITE JAZZ NETWORK**—contemporary/traditional jazz music from KKGO-FM, Los Angeles (5.58/5.76 discrete stereo)

TR—4 **SATELLITE JAZZ NETWORK**—contemporary/traditional jazz music from KKGO-FM, Los Angeles (5.58/5.76 discrete stereo)

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TR—6 **STARSHIP/COUNTRY & WESTERN** (5.4/5.94 discrete stereo)
STARSHIP/ADULT CONTEMPORARY (5.58/5.76 discrete stereo)
STARSHIP/50's/60's (6.435 mono)
STARSHIP/HITS (7.38/7.56 discrete stereo)
STARSHIP/COMEDY SPECIALS (7.695 mono)
STARSHIP/BIG BAND (7.785 mono)
IN-TOUCH—newspaper & book reading service for the sight-impaired (7.875 mono)

TR—7 **ESPN AFFILIATE INFORMATIONAL NETWORK**—ESPN program schedule information (6.2)

TR—8 **NICE & EASY**—easy listening music (5.58/5.76 discrete stereo)
CABLE JAZZ NETWORK—jazz music format (5.94/6.12 discrete stereo)
LOVE RADIO NETWORK—contemporary Christian music (6.30/6.48 discrete stereo)

TR—19 **STUDIOLINE/ALBUM TRAX** (5.4/5.58 discrete stereo)
STUDIOLINE/RHYTHMIX (5.76/5.94 discrete stereo)
STUDIOLINE/ALL THAT JAZZ (6.12/6.3 discrete stereo)
STUDIOLINE/SPECIALS CHANNEL (7.38/7.56 discrete stereo)

ALASCOM AURORA (143°W)

Polarization: ODD—Vertical EVEN—Horizontal

TR—6 **OCCASIONAL TRANSMISSIONS**—Alaska State internal teleconference channel (6.8)
TR—19 **OCCASIONAL TRANSMISSIONS**—sporting events, news & network feeds (6.8)
TR—20 **LEARN/ALASKA TELEVISION NETWORK**—educational (5.8)
TR—21 **OCCASIONAL TRANSMISSIONS**—sporting events, news & network feeds (6.8)
TR—24 **ALASKA SATELLITE TELEVISION PROJECT**—various network & independent programming (5.8)

RCA SATCOM 1R (139°W)

Polarization: ODD—Vertical EVEN—Horizontal

TR—5 **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—7 **PRIME TICKET**—Southern California regional sports network featuring Laker's Basketball & King's Hockey (6.8)
TR—8 **NBC TELEVISION NETWORK**—NBC regularly scheduled network programming Central time zone feed) (6.8)
TR—11 **WTN** (Worldwide Television News)—daily newsfeed circuit from ITN, London to Australian network television(6.8) (PAL/625 format)
TR—12 **NETCOM INTERNATIONAL**—occasional transmissions: videoconferencing sports events, news & network feeds (6.2/6.8)
TR—15 **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—17 **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—18 **OCCASIONAL TRANSMISSIONS**— sports events, news & network feeds (6.8)
NASA SELECT—part-time coverage of live NASA mission and mission-related events (6.8) (operated only during ongoing missions)
TR—20 **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—22 **NETCOM INTERNATIONAL**—occasional transmissions: videoconferencing, sports events & network feeds (6.2/6.8)
TR—24 **RADIOTELEVISIONE ITALIANA**—daily Italian network (national service) news feeds (6.8)
OCCASIONAL TRANSMISSIONS—sports events, news & network feeds (6.8)

AMSAT ASC 1 (128°W)

Polarization:
C-Band (36 Mhz/1-6): Horizontal
C-Band (36 Mhz/7-12): Vertical
C-Band (72 Mhz/13-15): Horizontal
C-Band (72 Mhz/16-18): Vertical
Ku-Band (72 Mhz): Horizontal

C-BAND/36 MHZ TRANSPONDERS:

TR—2(3) **WOLD COMMUNICATIONS**—occasional transmissions, sports events, news & network feeds (6.2/6.8)
TR—3(5) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)

continued on next page

C-BAND/72 MHZ TRANSPONDERS:

TR—15(22) OCCASIONAL TRANSMISSIONS —sports events, news & network feeds (6.2/6.8)

KU-BAND/72 MHZ TRANSPONDERS:

TR—20 OCCASIONAL TRANSMISSIONS—sports events, news & network feeds (6.2/6.8)

ATT TELSTAR 303 (125°W)

Polarization: ODD—Vertical EVEN—Horizontal

TR—1V(1) CMTV (Country Music Television)—video country music (5.58 & 5.76 discrete stereo/6.8 mono)
TR—1H(2) SELEC-TV—STV/SMATV FEED—first run movies, concert & entertainment specials (6.8)
TR—4H(8) OCCASIONAL TRANSMISSIONS—sports events, news & network feeds (5.8)
TR—9H(18) AMERICAN EXTASY—edited "X"-rated adult movies & entertainment (6.8)
TR—11H(22) KTVT, Ft. Worth/Dallas—Texas independent superstation (6.8)

Audio Subcarrier Services on TELSTAR 303

TR—9H(18) INSTORE SATELLITE NETWORK—background music for Safeway store chain (5.4/5.76/7.38/7.74 discrete mono)
FM AMERICA—adult contemporary music/home TVRO satellite talk-show format (6.2/mono)
NORTH AMERICA ONE—adult contemporary music/home TVRO satellite talk-show format (7.56 mono)

WU WESTAR 5 (123°W)

Polarization: ODD—Horizontal EVEN—Vertical

TR—1D(1) NYRA (New York Racing Authority)—live closed-circuit racing from New York state race tracks (fully encrypted/PROSTAR ORION)
TR—1X(2) THE UNIVERSITY NETWORK—religious programming with Dr. Eugene Scott (6.2/6.8)
TR—4D(7) CBS TELEVISION NETWORK CONTRACT CHANNEL—occasional live/taped network feeds (6.2/6.8)
OCCASIONAL TRANSMISSIONS—sports events, news & network feeds (6.2/6.8)
TR—4X(8) GROUP W SATELLITE COMMUNICATIONS—not in use
OCCASIONAL TRANSMISSIONS—sports events, news & network feeds (6.2/6.8)
PASS (ProAm Sports)—regional Michigan-area sports network (6.8)
TR—7X(14) OCCASIONAL TRANSMISSIONS—sports events, news & network feeds (6.2/6.8)
TR—8D(15) TVSC (Television Videotape Satellite Communications)—VIDSAT/SYNSAT distribution (6.2/6.8)
HUGHES TELEVISION NETWORK—sports events return feeds (6.2/6.8)
HAWTHORNE/ARLINGTON PARK HORSE RACING—daily live closed circuit horse racing from Hawthorne Park race track, Chicago (fully encrypted/OAK ORION)
OCCASIONAL TRANSMISSIONS—sporting events, news & network feeds (6.2/6.8)
TR—8X(16) OCCASIONAL TRANSMISSIONS—sports events, news & network feeds (6.2/6.8)
TR—9X(18) TVSC (Television Videotape Satellite Communications)—VIDSAT/SYNSAT distribution (6.2/6.8)
OCCASIONAL TRANSMISSIONS—sports events, news & network feeds (6.2/6.8)
TR—10X(20) AMERICAN MEDICAL BUILDINGS—not in use
TELEBET RACING ALIVE—daily live closed circuit horseracing from Penn National race track (fully encrypted/OAK ORION)
OCCASIONAL TRANSMISSIONS—sporting events & news feeds (6.2/6.8)
TR—11D(21) OCCASIONAL TRANSMISSIONS —sports events, news & network feeds (6.2/6.8)
TR—11X(22) TAFT BROADCASTING—occasional transmissions: sports events, news & network feeds (6.2/6.8)
TR—12X(24) TAFT BROADCASTING—occasional transmissions: sports events, news & network feeds (6.2/6.8)
THE FANTASY CHANNEL—"X"-rated adult movies & entertainment (fully encrypted/TELEASE SAVE)
PPV (Personal Preference Video)—pay-per-view "xxx"-rated movies (fully encrypted/OAK ORION)
OCCASIONAL TRANSMISSIONS—sporting events, news and teleconferencing feeds (6.2/6.8)

Audio Subcarrier Services on WESTAR 5

TR—9X(18) MUZAK—MOR easy listening foreground music (5.41 mono)
MUZAK TONES—easy listening foreground music (5.58 mono)
MUZAK—easy listening background music (5.76 mono)
SBN (Sheridan Broadcasting News) (7.38/7.56 discrete stereo)

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GTE SPACENET 1 (120°W)

Polarization:
C-Band (36 Mhz): Horizontal
C-Band (72 Mhz): Vertical
Ku-Band (72 Mhz): Horizontal

C-BAND/36 MHZ TRANSPONDERS:

TR—1(1) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—2(3) **BONNEVILLE TELECOMMUNICATIONS**—occasional transmissions: sports events, news & network feeds (6.2/6.8)
TR—3(5) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TUCSON GREYHOUND PARK—closed-circuit greyhound dog racing (fully encrypted/OAK ORION)
TR—4(7) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
HIN (Healthcare Information Network)—health & medical informational programming (6.8)
TR—5(9) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—6(11) **HSN** (Hospital Satellite Network)—premium entertainment and medical programming subscription service for hospitals (fully encrypted/OAK ORION)
TR—7(13) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—8(15) **ACTS** (American Christian Television System)—Southern Baptist Convention religious network (6.8)
TR—9(17) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—10(19) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—11(21) **BTN** (Baptist Television Network)—Baptist instructional television service (fully encrypted/OAK ORION)
TR—12(23) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)

L-Lower
U-Upper

C-BAND/72 MHZ TRANSPONDERS:

TR—17L(18) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
THE MEADOWS RACING NETWORK—weekend, nightly harness racing (6.8)
TR—17U(20) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—16U(16) **SIN** (Spanish International Network)—internal network return newsfeed channel (6.2/6.8)

KU-BAND/72 MHZ TRANSPONDERS:

TR-24 **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)

Audio Subcarrier Services on SPACENET 1

TR—8(15) **INSTORE SATELLITE NETWORK**—background music for Safeway store chain (5.4/5.76/7.38/7.74 discrete mono)

ANIK C3 (Ku) (117.5°W)

Polarization: T1-T16: Vertical
T17-T32: Horizontal
(W)—Western Beam
(E)—Eastern Beam

TR—T3(W) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (5.41)
TR—T4(W) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (5.41)
TR—T8(W) **KNOWLEDGE NET** (5.41)
TR—T9(W) **ALBERTA ACCESS** (5.41)
TR—10(W) **THE LIFE CHANNEL** (West) (5.41)
TR—T12(W) **FIRST CHOICE/SUPERCHANNEL** (West) (5.41)
TR—T18(E) **ATLANTIC SATELLITE NETWORK** (5.41)
TR—T19(E) **SUPER ECRAN** (5.41)
TR—T20(E) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (5.41)
TR—T23(E) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (5.41)
TR—T24(E) **LA SETTE** (5.41)
TR—T25(E) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (5.41)
TR—T26(E) **TV ONTARIO** (5.41)
TR—T27(E) **THE LIFE CHANNEL** (East) (5.41)
TR—T31(E) **FIRST CHOICE/SUPERCHANNEL** (East) (5.41)
TR—T32(E) **RADIO QUEBEC** (5.41)

MORELOS 1 (113.5°W)

Polarization: ODD—Horizontal
EVEN—Vertical

TR—12 **XEW-TV,** Mexico City—Televisa network affiliate (6.2) (upper half-transponder format)
TR—14 **XHIMT,** Mexico City—Imevision-national affiliate (6.2) (upper half-transponder format)
TR—20 **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2) (upper half-transponder format)
TR—22 **XHDF,** Mexico City—Imevision-regional affiliate (6.2) (upper half-transponder format)
TR—24 **SAN DIEGO NETWORK TELEVISION RELAY SERVICE**—selected U.S. network affiliate programming from KFMB, KCST & KGTV, San Diego, CA (6.2) (upper half-transponder format)

ANIK C2 (Ku) (110°W)

Polarization: T1-T16: Vertical
T17-T32: Horizontal
(W)—Western Beam
(E)—Eastern Beam

TR—T3(W) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (5.41)
TR—T4(W) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (5.41)
TR—T19(E) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (5.41)
TR—T20(E) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (5.41)

ANIK B (Ku) (109°W)

Polarization: All Horizontal

TR—4(7) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—6(11) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)

ANIK D (104.5°W)

Polarization: ODD—Horizontal
EVEN—Vertical

TR—1B(2) **TSN** (The Sports Network)—24-hr/day sports programming (6.8)
TR—2B(4) **GLOBAL TV OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.8)
TR—3A(5) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.8)
TR—3B(6) **MUCH MUSIC**—Pop/rock video (5.41 & 6.17 discrete stereo/6.7 mono)
TR—4A(7) **CBC OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.8)
TR—4B(8) **CHCH-TV,** Hamilton, Ontario—Ontario's leading independent station (fully encrypted/OAK ORION)
TR—5A(9) **WDIV-TV**, Detroit—NBC Network affiliate (fully encrypted/OAK ORION)
TR—5B(10) **WXYZ-TV**, Detroit—ABC Network affiliate (6.8) (fully encrypted/OAK ORION)
TR—6A(11) **CBC NORTH**—CBC network programming (Pacific time zone feed) (6.8)
TR—7A(13) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.8)
TR—7B(14) **TCTV** (Telemedia Communications Television)—TVA network programming (French) from CHLT, Sherbrooke/CFTM, Montreal (fully encrypted/OAK ORION)
TR—8A(15) **CBC** (French Channel)—French language CBC programming (Eastern time zone feed) (6.8)
TR—8B(16) **CBC PARLIAMENTARY NETWORK** (French)—daily live coverage of the Canadian House of Commons from Ottawa (6.8)
TR—9A(17) **CBC OCCASIONAL TRANSMISSIONS**—occasional incoming CBC affiliate feeds (6.8)
TR—9B(18) **CITV-TV,** Edmonton, Alberta—Alberta's leading independent station (fully encrypted/OAK ORION)
TR—10A(19) **CBC NORTH**—CBC network programming (Atlantic time zone feed) (6.8)
TR—10B(20) **CBMT,** Montreal—CBC English Network station (6.8)
TR—11A(21) **WTVS-TV**, Detroit—PBS Network affiliate (fully encrypted/OAK ORION)
TR—11B(22) **CHAN/BCTV** (British Columbia Television), Vancouver, B.C.—British Columbia's leading CTV network station (fully encrypted/OAK ORION)
TR—12A(23) **WJBK**, Detroit—CBS Network affiliate (fully encrypted/OAK ORION)
TR—12B(24) **CBC PARLIAMENTARY NETWORK** (English)—daily live coverage of the Canadian House of Commons from Ottawa (6.8)

Audio Subcarrier Services on ANIK D

TR—2B(4) **CFRB-AM**, Toronto, Ontario—contemporary MOR music (7.875 mono)
CFNY-FM, Brampton, Ontario—progressive rock format (5.41/5.58 discrete stereo)
TR—3B(6) **CKY-AM**, Winnepeg, Manitoba—Adult Contemporary format

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TR—4B(8) **CHFI-FM**, Toronto, Ontario—MOR/Beautiful music format (6.8 mono)
WESTWOOD ONE RADIO NETWORK (5.76/5.94 discrete stereo)
TR—5B(10) **CITE-FM**, Montreal, Quebec—French language traditional MOR music (6.8)
TR—6A(11) **CBC NETWORK RADIO** (English)—(6.12 mono)
TR—7B(14) **CKAC-AM**, Montreal, Quebec—French language MOR/contemporary music (5.41 mono)
CITE-FM, Montreal, Quebec—French language traditional MOR music (6.17)
TR—8B(16) **CBOF-FM**, Ottawa, Ontario—CBC Stereo Radio (French) (5.41/5.58 discrete stereo)
CBBK-FM, Kingston, Ontario—CBC Stereo Radio (English) (5.76/5.94 discrete stereo)
TR—9B(18) **CIRK-FM**, (K-97), Edmonton, Alberta—progressive rock (6.17 mpx stereo)
CKO-FM, Edmonton, Alberta—all-news & information radio (6.8 mono)
TR—10A(19) **CBC NETWORK RADIO** (English)—(6.12 mono)
TR—10B(20) **CBM-AM**, Montreal, Quebec—CBC Radio English Network station (6.12 mono)
TR—11B(22) **CFMI-FM**, New Westminster, B.C.—Soft album rock (6.8 mono)
CBU-FM, Vancouver, B.C.—CBC stereo radio (English) (5.76/5.94 discrete stereo)
TR—12A(23) **VOCM**, St. John's Newfoundland—Adult contemporary music (6.17 mono)
CKRW-AM, Whitehorse, Yukon—country & western music (5.41 mono)
TR—12B(24) **CBOF-FM**, Ottawa, Ontario—CBC Stereo Radio (French)(5.41/5.58 discrete stereo)
CBBK-FM, Kingston, Ontario—CBC Stereo Radio (English)(5.76/5.94 discrete stereo)

GTE GSTAR 1 (Ku) (103°W)

Polarization: 1-8: Horizontal
9-16: Vertical

TR—2 **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—4 **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—5 **NTU** (National Technological University)—electronic and data systems related instructional courses (6.8) (half transponder format: CH-A: NTU (11961 mhz), CH-B: AMCEE (11987 mhz)
TR—6 **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—7 **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.8)
H-P TELEVISION NETWORK—Hewlett-Packard internal teleconference channel (6.8)
TR—8 **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—10 **HI-NET COMMUNICATIONS**—ESPN (lower half transponder); CNN HEADLINE NEWS (upper half transponder) (5.5)
TR—12 **HI-NET COMMUNICATIONS**—BIZNET NEWS, WTBS, SATELLITE CINEMA (lower half transponder/eastern beam) (5.5); SHOWTIME (east) (upper half transponder/eastern beam) (5.5)
TR—15 **GTE INTERNAL TELECONFERENCING CHANNEL** (6.2/6.8)
TR—16 **HI-NET COMMUNICATIONS**—BIZNET NEWS, WTBS, SATELLITE CINEMA (lower half transponder/western beam) (5.5) SHOWTIME (west) upper half transponder/western beam) (5.5)

SBS 1 (Ku) (99°W)

Polarization: All horizontal

NO VIDEO

WU WESTAR 4 (99°W)

Polarization: ODD—Horizontal
EVEN—Vertical

TR—1X(2) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—3X(6) **WOLD COMMUNICATIONS**—occasional transmissions: sporting events, news & network feeds (6.2/6.8)
WORD OF FAITH SATELLITE NETWORK—religious (6.2/6.8)
BAY MEADOWS HORSE RACING—live closed-circut horse racing from the Bay Meadows Race Track, San Mateo, CA (fully encrypted/OAK ORION)
TR—5D(9) **WOLD COMMUNICATIONS**—occasional transmissions: sports events, news & network feeds (6.2/6.8)
CTNA (Catholic Telecommunications Network of America)—religious (6.8)
TR—5X(10) **OCCASIONAL TRANSMISSIONS**—sporting events, news & network feeds (6.2/6.8)
TR—6D(11) **WOLD COMMUNICATIONS**—occasional transmissions: sports events, news & network feeds (6.2/6.8)
MEADOWLANDS HORSE RACING—live closed-circuit horse racing from Meadowlands Race Track, NJ (fully encrypted/OAK ORION)
TR—6X(12) **AMSAT**—occasional transmissions: sports events, news & network feeds (6.2/6.8)

continued on next page

TR—7D(13) **JISO** (Japanese International Joint Users Organization)—multiple Japan network news & programming feeds (6.2/6.8)
TR—7X(14) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—8D(15) **PBS** (Public Broadcasting)—schedule A programming (6.8)
TR—8X(16) **CNN** (Cable News Network) Contract Channel—incoming regional bureau news feeds (6.2/6.8)
TR—9D(17) **PBS** (Public Broadcasting)—schedule B programming/occasional videoconferencing (6.8)
TR—9X(18) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—10D(19) **BONNEVILLE TELECOMMUNICATIONS**—occasional transmissions: sports events, news & network feeds (6.2/6.8)
DEMSAT—Democratic Party satellite network (6.8)
TR—10X(20) **WOLD COMMUNICATIONS**—occasional transmissions: sports events, news & network feeds (6.2/6.8)
LOS ALAMITOS HORSE RACING live closed-circuit horse racing from Los Alamitos Race Track, Los Alamitos, CA (fully encrypted/OAK ORION)
TR—11D(21) **PBS** (Public Broadcasting)—schedule C programming (6.8)
OCCASIONAL TRANSMISSIONS—news feeds (6.2/6.8)
TR—12D(23) **PBS** (Public Broadcasting)—schedule D programming (6.8)
PBS OCCASIONAL FEEDS (6.8)
BONNEVILLE TELECOMMUNICATIONS—occasional transmissions: sporting events, news & network feeds (6.2/6.8)
TR—12X(24) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)

Audio Subcarrier Services on WESTAR 4

TR—5D(9) **CTNA RADIO NETWORK**—religious (6.2)

SBS 2 (Ku) (97°W)

Polarization: All horizontal

NO VIDEO

ATT TELSTAR 301 (96°W)

Polarization: ODD—Vertical
EVEN—Horizontal

TR—1V(1) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—1H(2) **CBS TELEVISION NETWORK**—CBS regularly scheduled network programming (Central time zone feed) (6.2/6.8)
TR—2V(3) **ABC TELEVISION NETWORK**—incoming regional affiliates new feeds (6.2/6.8)
OCCASIONAL TRANSMISSIONS—sports events, news & network feeds (6.2/6.8)
TR—2H(4) **ABC TELEVISION NETWORK**—Los Angeles-New York programming & news feeds/Contract Channel (6.2/6.8)
TR—3V(5) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—3H(6) **ABC TELEVISION NETWORK**—occasional live/taped network feeds (6.2/6.8)
OCCASIONAL TRANSMISSIONS—sports events, news & network feeds (6.2/6.8)
TR—4V(7) **CBS TELEVISION NETWORK**—CBS regularly scheduled network programming (Central time zone feed) (6.2/6.8)
TR—5V(9) **WOLD COMMUNICATIONS**—occasional transmissions: sports events, news & network feeds (6.2/6.8)
WOLD SATELLITE NETWORK—syndicated programming feeds (6.12/6.3 discrete stereo/6.2/6.8 mono)
TR—5H(10) **ABC TELEVISION NETWORK**—ABC regularly scheduled network programming (Central time zone feed) (6.2/6.8)
TR—6V(11) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—6H(12) **ABC TELEVISION NETWORK**—ABC regularly scheduled network programming (Central time zone feed) (6.2/6.8) Channel (5.8/6.8)
TR—7V(13) **SNS** (Sports News Service)—sports highlights service (6.2/6.8)
INDEPENDENT NETWORK NEWS (6.2/6.8)
TR—7H(14) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)

continued on next page

TR—8V(15) **CBS TELEVISION NETWORK**—CBS regularly scheduled network programming (Pacific time zone feed)(6.2)
TR—8H(16) **OCCASIONAL TRANSMISSIONS**—sports events news & network feeds (6.2/6.8)
TR—9V(17) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—9H(18) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (5.8/6.2/6.8)
TR—10V(19) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—10H(20) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (5.8/6.2/6.8)
TR—12V(23) **WOLD COMMUNICATIONS**—occasional transmissions: sports events, news & network feeds (6.2/6.8)
WOLD SATELLITE NETWORK—syndicated programming feeds (6.2/6.8)
TR—12H(24) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)

Audio Subcarrier Services on TELSTAR 301

TR—5V(9) **TRANSTAR II RADIO NETWORK**—adult contemporary music format (7.38 & 7.56 discrete stereo)
TRANSTAR III RADIO NETWORK—country & western music format (5.58 & 5.76 discrete stereo)

SBS 3 (Ku) (95°W)

Polarization: All horizontal

TR—1 **OCCASIONAL TRANSMISSIONS**—teleconference & private video network feeds (5.8/6.2/6.8)
NBC TELEVISION NETWORK—part-time feed channel (6.8)
TR—3 **NBC TELEVISION NETWORK**—Burbank to New York & miscellaneous operations video circuit (6.2)
TR—4 **OCCASIONAL TRANSMISSIONS**—teleconference & private video network feeds (5.8/6.2/6.8)
TR—5 **NBC TELEVISION NETWORK**—regularly scheduled NBC network programming (Pacific time zone feed) (6.2/6.8 stereo)
TR—6 **NBC TELEVISION NETWORK**—regularly scheduled NBC network programming (Central time zone feed) (6.2/6.8 stereo)
TR—7 **CONUS/HUBCOM**—remote satellite newsfeed access channel (7.56)
OCCASIONAL TRANSMISSIONS—sports events, news & network feeds (6.2/6.8)
TR—8 **PSN** (Private Satellite Network)—teleconference & private video network feeds (fully encrypted/S-A BMAC/OAK ORION)
OCCASIONAL TRANSMISSIONS—sports events, news & network feeds (6.2/6.8)
TR—9 **NBC TELEVISION NETWORK**—NBC news feeds & partial regularly scheduled network programming (6.2/6.8 stereo)
TR—10 **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
U.S. ARMY SCHOOL OF THE AIR (5.76)

HUGHES GALAXY 3 (93.5°W)

Polarization: ODD—Horizontal EVEN—Vertical

TR—2 **OCCASIONAL TRANSMISSIONS**— sports events, news & network feeds (6.2/6.8)
SANTA ANITA HORSE RACING—live closed-circuit horse racing from Santa Anita Race Track, CA (fully encrypted/OAK ORION)
TR—4 **OCCASIONAL TRANSMISSIONS**— sports events, news & network feeds (6.2/6.8)
GALAXY 3 ID CHANNEL—full-time test tone/color bars identification channel for Galaxy 3 (6.2/6.8)
TR—5 **SATELLEASE**—occasional transmissions: sports events, news & network feeds (6.2/6.8)
TR—6 **OCCASIONAL TRANSMISSIONS**— sports events, news & network feeds (6.2/6.8)
TR—7 **OCCASIONAL TRANSMISSIONS**— sports events, news & network feeds (6.2/6.8)
TR—8 **OCCASIONAL TRANSMISSIONS**— sports events, news & network feeds (6.2/6.8)
TR—9 **OCCASIONAL TRANSMISSIONS**— sports events, news & network feeds (6.2/6.8)
TR—10 **OCCASIONAL TRANSMISSIONS**— sports events, news & network feeds (6.2/6.8)
TR—11 **OCCASIONAL TRANSMISSIONS**— sports events, news & network feeds (6.2/6.8)
TR—12 **OCCASIONAL TRANSMISSIONS**— sports events, news & network feeds (6.2/6.8)
BIZNET (American Business Network)—business and political news/special features from Washington, DC (6.8)

WESTSAT COMMUNICATIONS

SBS 4 (Ku) (91°W)

Polarization: All horizontal

TR—7 **ATN** (American Television Network)—rock videos format for shopping center/mall promotions (6.8)

WU WESTAR 3 (91°W)

Polarization: All horizontal

TR—3(5) **CNN** (Cable News Network) Contract Channel—incoming regional bureau news feeds (6.2/6.8)
TR—10(19) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
BRIGHTSTAR INTERNATIONAL—international news feeds (6.2/6.8)

ATT TELSTAR 302 (86°W)

Polarization: ODD—Vertical
EVEN—Horizontal

TR—1V(1) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—5V(9) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—5H(10) **ABC TELEVISION NETWORK**—regularly scheduled network programming (Pacific time zone feed) (6.2/6.8)
TR—6V(11) **ABC TELEVISION NETWORK**—occasional network sports events/news spot feeds (6.2/6.8)
TR—7H(14) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—8V(15) **CBS TELEVISION NETWORK**—occasional network sports events/news spot feeds (6.2)
TR—8H(16) **CBS TELEVISION NETWORK**—regularly scheduled network programming (Pacific time zone feed) (6.2)
TR—9V(17) **CBS TELEVISION NETWORK**—occasional network sports events/news spot feeds (6.2)
TR—10V(19) **CBS TELEVISION NETWORK**—occasional network sports events/news spot feeds (6.2)
TR—10H(20) **CBS TELEVISION NETWORK**—regularly scheduled network programming (Central time zone feed) (6.2)
TR—11V(21) **NETCOM INTERNATIONAL**—occasional transmissions: videoconferencing, sports events, news & network feeds (6.2/6.8)
TR—11H(22) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—12V(23) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—12H(24) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)

RCA K1 (Ku) (85°W)

Polarization: ODD: Horizontal
EVEN: Vertical

Launched January 12, 1986

NO VIDEO

RCA SATCOM 4 (83°W)

Polarization: ODD—Vertical
EVEN—Horizontal

TR—1 **HSC** (Home Shopping Club)—shop-at-home service (6.2/6.8)
TR—2 **BRAVO**—performing and cultural arts programming (5.8 mpx stereo/6.8 mono)
THE BOOK CHANNEL—late book reviews and author interviews (6.8)
OCCASIONAL TRANSMISSIONS—sports events, news & network feeds (6.2/6.8)
TR—3 **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—4 **NICKELODEON** (West)—premium children's programming (6.8)
TR—5 **ABC TELEVISION NETWORK REMOTE FEEDS** (6.2/6.8)
OCCASIONAL TRANSMISSIONS—sporting events, news & network feeds (6.2/6.8)
TR—6 **MSG** (Madison Square Garden Cable Network)—Northeast Regional Sports Network featuring Knicks basketball & Rangers hockey (6.8)
HUGHES TELEVISION NETWORK—sports events feeds (6.2/6.8)
TR—7 **LBN** (Liberty Broadcasting Network)—religious (6.8)
TR—8 **NETCOM INTERNATIONAL**—occasional transmissions: sports events, news & network feeds (6.2/6.8)
TR—9 **SPORTSVISION**—regional Chicago area sports network (6.2/6.8)
OCCASIONAL TRANSMISSIONS—sporting events, news & network feeds (6.2/6.8)
TR—10 **AMC** (American Movie Classics)—vintage/classic movies with daily theme presentation (6.8)
THE BOOK CHANNEL—late book reviews and author interviews (6.8)
OCCASIONAL TRANSMISSIONS—sporting events, news & network feeds (6.2/6.8)

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NORTH AMERICAN C-BAND SATELLITE FREQUENCY/TRANSPONDER CONVERSION TABLE

Channel or Dial Number	Uplink Frequency in MHz	Downlink Frequency in MHz	Satcom 1 & 2 1R, 2R, 3R 4 & 5	Telstar 301 Comstar 1 & 2, 3 & 4	Anik D	Galaxy 1 & 2	Westar 4 & 5	Spacenet 1 & 2	ASC 1
1	5945	3720	1 (V)	1V (V)	1A (H)	1 (H)	1D (H)	1 (H)	1 (H)
2	5965	3740	2 (H)	1H (H)	1B (V)	2 (V)	1X (V)	13L (V)*	7 (V)
3	5985	3760	3 (V)	2V (V)	2A (H)	3 (H)	2D (H)	2 (H)	2 (H)
4	6005	3780	4 (H)	2H (H)	2B (V)	4 (V)	2X (V)	13U(V)*	8 (V)
5	6025	3800	5 (V)	3V (V)	3A (H)	5 (H)	3D (H)	3 (H)	3 (H)
6	6045	3820	6 (H)	3H (H)	3B (V)	6 (V)	3X (V)	14L (V)*	9 (V)
7	6065	3840	7 (V)	4V (V)	4A (H)	7 (H)	4D (H)	4 (H)	4 (H)
8	6085	3860	8 (H)	4H (H)	4B (V)	8 (V)	4X (V)	14U(V)*	10 (V)
9	6105	3880	9 (V)	5V (V)	5A (H)	9 (H)	5D (H)	5 (H)	5 (H)
10	6125	3900	10 (H)	5H (H)	5B (V)	10 (V)	5X (V)	15L (V)*	11 (V)
11	6145	3920	11 (V)	6V (V)	6A (H)	11 (H)	6D (H)	6 (H)	6 (H)
12	6165	3940	12 (H)	6H (H)	6B (V)	12 (V)	6X (V)	15U(V)*	12 (V)
13	6185	3960	13 (V)	7V (V)	7A (H)	13 (H)	7D (H)	7 (H)	
14	6205	3980	14 (H)	7H (H)	7B (V)	14 (V)	7X (V)	16L (V)*	13 (V)*
15	6225	4000	15 (V)	8V (V)	8A (H)	15 (H)	8D (H)	8 (H)	16 (H)*
16	6245	4020	16 (H)	8H (H)	8B (V)	16 (V)	8X (V)	16U(V)*	
17	6265	4040	17 (V)	9V (V)	9A (H)	17 (H)	9D (H)	9 (H)	
18	6285	4060	18 (H)	9H (H)	9B (V)	18 (V)	9X (V)	17L (V)*	14 (V)*
19	6305	4080	19 (V)	10V (V)	10A (H)	19 (H)	10D (H)	10 (H)	17(H)*
20	6325	4100	20 (H)	10H (H)	10B (V)	20 (V)	10X (V)	17U(V)*	
21	6345	4120	21 (V)	11V (V)	11A (H)	21 (H)	11D (H)	11 (H)	
22	6365	4140	22 (H)	11H (H)	11B (V)	22 (V)	11X (V)	18L (V)*	15 (V)*
23	6385	4160	23 (V)	12V (V)	12A (H)	23 (H)	12D (H)	12 (H)	18(H)*
24	6405	4180	24 (H)	12H (H)	12B (V)	24 (V)	12X (V)	18U(V)*	

Downlink polarization for each transponder denoted in parenthesis.

** 72 Mhz bandwidth transponders.*

NORTH AMERICAN KU-BAND SATELLITE FREQUENCY/TRANSPONDER CONVERSION TABLE

Anik C2 & C3 Transponder	Uplink Frequency in Mhz	Downlink Frequency in Mhz
T1 (V)	14017	11717
T2 (V)	14043	11743
T3 (V)	14078	11778
T4 (V)	14104	11804
T5 (V)	14139	11839
T6 (V)	14165	11865
T7 (V)	14200	11900
T8 (V)	14226	11926
T9 (V)	14261	11961
T10 (V)	14287	11987
T11 (V)	14322	12022
T12 (V)	14348	12048
T13 (V)	14383	12083
T14 (V)	14409	12109
T15 (V)	14444	12144
T16 (V)	14470	12170
T17 (H)	14030	11730
T18 (H)	14056	11756
T19 (H)	14091	11791
T20 (H)	14117	11817
T21 (H)	14152	11852
T22 (H)	14178	11878
T23 (H)	14213	11913
T24 (H)	14239	11939
T25 (H)	14274	11974
T26 (H)	14300	12000
T27 (H)	14335	12035
T28 (H)	14361	12061
T29 (H)	14396	12096
T30 (H)	14422	12122
T31 (H)	14457	12157
T32 (H)	14483	12183

GStar 1 Transponder	Uplink Frequency in Mhz	Downlink Frequency in Mhz
1 (H)	14030	11730
2 (H)	14091	11791
3 (H)	14152	11852
4 (H)	14213	11913
5 (H)	14274	11974
6 (H)	14335	12035
7 (H)	14396	12096
8 (H)	14457	12157
9 (V)	14044	11744
10 (V)	14105	11805
11 (V)	14166	11866
12 (V)	14227	11927
13 (V)	14288	11988
14 (V)	14349	12049
15 (V)	14410	12110
16 (V)	14471	12171

SBS 1, 2, 3, & 4 Transponder	Uplink Frequency in Mhz	Downlink Frequency in Mhz
1 (H)	14025	11725
2 (H)	14074	11774
3 (H)	14123	11823
4 (H)	14172	11872
5 (H)	14221	11921
6 (H)	14270	11970
7 (H)	14319	12019
8 (H)	14368	12068
9 (H)	14417	12117
10 (H)	14466	12166

RCA K1 & K2 Transponder	Uplink Frequency in Mhz	Downlink Frequency in Mhz
1 (H)	14029.0	11729.0
2 (V)	14058.5	11758.5
3 (H)	14088.0	11788.0
4 (V)	14117.5	11817.5
5 (H)	14147.0	11847.0
6 (V)	14176.5	11876.5
7 (H)	14206.0	11906.0
8 (V)	14235.5	11935.5
9 (H)	14265.0	11965.0
10 (V)	14294.5	11994.5
11 (H)	14324.0	12024.0
12 (V)	14353.5	12053.5
13 (H)	14383.0	12083.0
14 (V)	14412.5	12112.5
15 (H)	14442.0	12142.0
16 (V)	14471.5	12176.5

ASC 1 Spacenet 1 & 2 Transponder	Uplink Frequency in Mhz	Downlink Frequency in Mhz
19 (H)	14040	11740
20 (H)	14120	11820
21 (H)	14200	11900
22 (H)	14280	11980
23 (H)	14360	12060
24 (H)	14440	12140

Downlink polarization for each transponder denoted in parenthesis.

SUBSTANT COMMUNICATIONS

SBS 4 (Ku) (91°W)

Polarization: All horizontal

TR—7 **ATN** (American Television Network)—rock videos format for shopping center/mall promotions (6.8)

WU WESTAR 3 (91°W)

Polarization: All horizontal

TR—3(5) **CNN** (Cable News Network) Contract Channel—incoming regional bureau news feeds (6.2/6.8)
TR—10(19) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
BRIGHTSTAR INTERNATIONAL—international news feeds (6.2/6.8)

ATT TELSTAR 302 (86°W)

Polarization: ODD—Vertical
EVEN—Horizontal

TR—1V(1) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—5V(9) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—5H(10) **ABC TELEVISION NETWORK**—regularly scheduled network programming (Pacific time zone feed) (6.2/6.8)
TR—6V(11) **ABC TELEVISION NETWORK**—occasional network sports events/news spot feeds (6.2/6.8)
TR—7H(14) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—8V(15) **CBS TELEVISION NETWORK**—occasional network sports events/news spot feeds (6.2)
TR—8H(16) **CBS TELEVISION NETWORK**—regularly scheduled network programming (Pacific time zone feed) (6.2)
TR—9V(17) **CBS TELEVISION NETWORK**—occasional network sports events/news spot feeds (6.2)
TR—10V(19) **CBS TELEVISION NETWORK**—occasional network sports events/news spot feeds (6.2)
TR—10H(20) **CBS TELEVISION NETWORK**—regularly scheduled network programming (Central time zone feed) (6.2)
TR—11V(21) **NETCOM INTERNATIONAL**—occasional transmissions: videoconferencing, sports events, news & network feeds (6.2/6.8)
TR—11H(22) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—12V(23) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—12H(24) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)

RCA K1 (Ku) (85°W)

Polarization: ODD: Horizontal
EVEN: Vertical

Launched January 12, 1986
NO VIDEO

RCA SATCOM 4 (83°W)

Polarization: ODD—Vertical
EVEN—Horizontal

TR—1 **HSC** (Home Shopping Club)—shop-at-home service (6.2/6.8)
TR—2 **BRAVO**—performing and cultural arts programming (5.8 mpx stereo/6.8 mono)
THE BOOK CHANNEL—late book reviews and author interviews (6.8)
OCCASIONAL TRANSMISSIONS—sports events, news & network feeds (6.2/6.8)
TR—3 **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—4 **NICKELODEON** (West)—premium children's programming (6.8)
TR—5 **ABC TELEVISION NETWORK REMOTE FEEDS** (6.2/6.8)
OCCASIONAL TRANSMISSIONS—sporting events, news & network feeds (6.2/6.8)
TR—6 **MSG** (Madison Square Garden Cable Network)—Northeast Regional Sports Network featuring Knicks basketball & Rangers hockey (6.8)
HUGHES TELEVISION NETWORK—sports events feeds (6.2/6.8)
TR—7 **LBN** (Liberty Broadcasting Network)—religious (6.8)
TR—8 **NETCOM INTERNATIONAL**—occasional transmissions: sports events, news & network feeds (6.2/6.8)
TR—9 **SPORTSVISION**—regional Chicago area sports network (6.2/6.8)
OCCASIONAL TRANSMISSIONS—sporting events, news & network feeds (6.2/6.8)
TR—10 **AMC** (American Movie Classics)—vintage/classic movies with daily theme presentation (6.8)
THE BOOK CHANNEL—late book reviews and author interviews (6.8)
OCCASIONAL TRANSMISSIONS—sporting events, news & network feeds (6.2/6.8)

continued on next page

NORTH AMERICAN C-BAND SATELLITE FREQUENCY/TRANSPONDER CONVERSION TABLE

Channel or Dial Number	Uplink Frequency in MHz	Downlink Frequency in MHz	Satcom 1 & 2 1R, 2R, 3R 4 & 5	Telstar 301 Comstar 1 & 2, 3 & 4	Anik D	Galaxy 1 & 2	Westar 4 & 5	Spacenet 1 & 2	ASC 1
1	5945	3720	1 (V)	1V (V)	1A (H)	1 (H)	1D (H)	1 (H)	1 (H)
2	5965	3740	2 (H)	1H (H)	1B (V)	2 (V)	1X (V)	13L (V)*	7 (V)
3	5985	3760	3 (V)	2V (V)	2A (H)	3 (H)	2D (H)	2 (H)	2 (H)
4	6005	3780	4 (H)	2H (H)	2B (V)	4 (V)	2X (V)	13U(V)*	8 (V)
5	6025	3800	5 (V)	3V (V)	3A (H)	5 (H)	3D (H)	3 (H)	3 (H)
6	6045	3820	6 (H)	3H (H)	3B (V)	6 (V)	3X (V)	14L (V)*	9 (V)
7	6065	3840	7 (V)	4V (V)	4A (H)	7 (H)	4D (H)	4 (H)	4 (H)
8	6085	3860	8 (H)	4H (H)	4B (V)	8 (V)	4X (V)	14U(V)*	10 (V)
9	6105	3880	9 (V)	5V (V)	5A (H)	9 (H)	5D (H)	5 (H)	5 (H)
10	6125	3900	10 (H)	5H (H)	5B (V)	10 (V)	5X (V)	15L (V)*	11 (V)
11	6145	3920	11 (V)	6V (V)	6A (H)	11 (H)	6D (H)	6 (H)	6 (H)
12	6165	3940	12 (H)	6H (H)	6B (V)	12 (V)	6X (V)	15U(V)*	12 (V)
13	6185	3960	13 (V)	7V (V)	7A (H)	13 (H)	7D (H)	7 (H)	
14	6205	3980	14 (H)	7H (H)	7B (V)	14 (V)	7X (V)	16L (V)*	13 (V)*
15	6225	4000	15 (V)	8V (V)	8A (H)	15 (H)	8D (H)	8 (H)	16 (H)*
16	6245	4020	16 (H)	8H (H)	8B (V)	16 (V)	8X (V)	16U(V)*	
17	6265	4040	17 (V)	9V (V)	9A (H)	17 (H)	9D (H)	9 (H)	
18	6285	4060	18 (H)	9H (H)	9B (V)	18 (V)	9X (V)	17L (V)*	14 (V)*
19	6305	4080	19 (V)	10V (V)	10A (H)	19 (H)	10D (H)	10 (H)	17 (H)*
20	6325	4100	20 (H)	10H (H)	10B (V)	20 (V)	10X (V)	17U(V)*	
21	6345	4120	21 (V)	11V (V)	11A (H)	21 (H)	11D (H)	11 (H)	
22	6365	4140	22 (H)	11H (H)	11B (V)	22 (V)	11X (V)	18L (V)*	15 (V)*
23	6385	4160	23 (V)	12V (V)	12A (H)	23 (H)	12D (H)	12 (H)	18 (H)*
24	6405	4180	24 (H)	12H (H)	12B (V)	24 (V)	12X (V)	18U(V)*	

Downlink polarization for each transponder denoted in parenthesis. ** 72 Mhz bandwidth transponders.*

NORTH AMERICAN KU-BAND SATELLITE FREQUENCY/TRANSPONDER CONVERSION TABLE

Anik C2 & C3 Transponder	Uplink Frequency in Mhz	Downlink Frequency in Mhz
T1 (V)	14017	11717
T2 (V)	14043	11743
T3 (V)	14078	11778
T4 (V)	14104	11804
T5 (V)	14139	11839
T6 (V)	14165	11865
T7 (V)	14200	11900
T8 (V)	14226	11926
T9 (V)	14261	11961
T10 (V)	14287	11987
T11 (V)	14322	12022
T12 (V)	14348	12048
T13 (V)	14383	12083
T14 (V)	14409	12109
T15 (V)	14444	12144
T16 (V)	14470	12170
T17 (H)	14030	11730
T18 (H)	14056	11756
T19 (H)	14091	11791
T20 (H)	14117	11817
T21 (H)	14152	11852
T22 (H)	14178	11878
T23 (H)	14213	11913
T24 (H)	14239	11939
T25 (H)	14274	11974
T26 (H)	14300	12000
T27 (H)	14335	12035
T28 (H)	14361	12061
T29 (H)	14396	12096
T30 (H)	14422	12122
T31 (H)	14457	12157
T32 (H)	14483	12183

GStar 1 Transponder	Uplink Frequency in Mhz	Downlink Frequency in Mhz
1 (H)	14030	11730
2 (H)	14091	11791
3 (H)	14152	11852
4 (H)	14213	11913
5 (H)	14274	11974
6 (H)	14335	12035
7 (H)	14396	12096
8 (H)	14457	12157
9 (V)	14044	11744
10 (V)	14105	11805
11 (V)	14166	11866
12 (V)	14227	11927
13 (V)	14288	11988
14 (V)	14349	12049
15 (V)	14410	12110
16 (V)	14471	12171

SBS 1, 2, 3, & 4 Transponder	Uplink Frequency in Mhz	Downlink Frequency in Mhz
1 (H)	14025	11725
2 (H)	14074	11774
3 (H)	14123	11823
4 (H)	14172	11872
5 (H)	14221	11921
6 (H)	14270	11970
7 (H)	14319	12019
8 (H)	14368	12068
9 (H)	14417	12117
10 (H)	14466	12166

RCA K1 & K2 Transponder	Uplink Frequency in Mhz	Downlink Frequency in Mhz
1 (H)	14029.0	11729.0
2 (V)	14058.5	11758.5
3 (H)	14088.0	11788.0
4 (V)	14117.5	11817.5
5 (H)	14147.0	11847.0
6 (V)	14176.5	11876.5
7 (H)	14206.0	11906.0
8 (V)	14235.5	11935.5
9 (H)	14265.0	11965.0
10 (V)	14294.5	11994.5
11 (H)	14324.0	12024.0
12 (V)	14353.5	12053.5
13 (H)	14383.0	12083.0
14 (V)	14412.5	12112.5
15 (H)	14442.0	12142.0
16 (V)	14471.5	12176.5

ASC 1 Spacenet 1 & 2 Transponder	Uplink Frequency in Mhz	Downlink Frequency in Mhz
19 (H)	14040	11740
20 (H)	14120	11820
21 (H)	14200	11900
22 (H)	14280	11980
23 (H)	14360	12060
24 (H)	14440	12140

Downlink polarization for each transponder denoted in parenthesis.

TR—11 **HSE** (Home Sports Entertainment Network)—regional cable sports network (6.8)
OCCASIONAL TRANSMISSIONS—sporting events, news and network feeds (6.8)
TR—12 **THE PLAYBOY CHANNEL**—adult oriented entertainment and sexually oriented "R"-rated movies from Playboy (6.8)
OCCASIONAL TRANSMISSIONS—sports events, news & network feeds (6.2/6.8)
TR—13 **NESN** (New England Sports Network)—regional sports network featuring Red Sox Baseball and Bruins Hockey (6.8)
TR—14 **NETCOM INTERNATIONAL**—occasional transmissions: videoconferencing, sports events & network feeds (6.2/6.8)
PRIVATE TICKET—Playboy Channel pay-per-view channel (6.8)
HSE (Home Sports Entertainment)—live sports events spot feed channel (6.2/6.8)
TR—15 **SUCCESS 'N LIFE**—motivational/self-improvement programming (6.8)
TR—16 **NETCOM INTERNATIONAL**—occasional transmissions: videoconferencing, sports events & network feeds (6.2/6.8)
THE SILENT NETWORK—specialized programming for the deaf and hearing impaired (6.8)
TR—17 **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—18 **HIT VIDEO USA**—rock videos format (6.2/6.8 stereo)
TR—19 **WPIX**, New York—highly rated independent superstation from the Big Apple (6.8)
TR—20 **PRIME TICKET**—Southern California regional sports network featuring Laker's basketball & King's hockey (6.8)
TR—21 **THE NOSTALGIA CHANNEL**—vintage movie classics from 1920's to 1950's (6.8)
TR—22 **HOME TEAM SPORTS**—Washington, DC/Maryland regional sports network (6.8)
TR—24 **OCCASIONAL TRANSMISSIONS**—sporting events, news and network feeds (6.2/6.8)
PHILADELPHIA PARK HORSE RACING—live closed-circuit horse racing from Philadelphia Park, PA (fully encrypted/OAK ORION)

Audio Subcarrier Services on SATCOM 4

TR—7 **ASTRO RADIO NETWORK**—religious multidenominational talk/instructional talk format (6.3)
TR—11 **KRBE (FM)**, Houston, TX—pop/rock music (6.8) (only during HSE billboard)
TR—13 **WJIB (FM)**,Boston, MA—easy listening music (6.8) (only during NESN billboard)
TR—21 **NATIONAL BROADCAST MUSEUM**—vintage radio broadcast serials & comedy programs (6.2)
TR—22 **WLTT (FM)**—Bethesda, MD—adult contemporary/MOR music (6.8) (only during HTS billboard)
TR—23 **GOLD MINE RADIO NETWORK**—country & western classics music (7.92)

RCA K2 (Ku)(81°W)

Polarization: ODD: Horizontal EVEN: Vertical

TR—2 **CONUS/HUBCOM**—remote satellite news feed access channel (7.56)
TR—4 **CONUS/HUBCOM**—remote satellite news feed access channel (7.56)
TR—6 **CONUS/HUBCOM**—remote satellite news feed access channel (7.56)
TR—8 **CONUS/HUBCOM**—remote satellite news feed access channel (7.56)
TR—12 **RCA K2 ID CHANNEL**—full time test tone/color bars identification channel for RCA K2 (6.8)

Other transponders allotted but not presently assigned to:
NBC TELEVISION NETWORK (8 transponders)
AT&T COMMUNICATIONS (2 transponders)
RCA (2 transponders)

WU WESTAR 2 (79°W)

Polarization: All horizontal

NO VIDEO

WESTCOM COMMUNICATIONS

ATT COMSTAR 3 (76°W)

Polarization: ODD—Vertical
EVEN—Horizontal

NO VIDEO

HUGHES GALAXY 2 (74°W)

Polarization: ODD—Horizontal
EVEN—Vertical

TR—1 **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—2 **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—3 **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—4 **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
GALAXY 2 ID CHANNEL—full-time test tone/color bars identification channel for Galaxy 2 (6.2/6.8)
TR—5 **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—7 **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—8 **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—11 **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)

RCA SATCOM 2R (72°W)

Polarization: ODD—Vertical
EVEN—Horizontal

TR—2 **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—13 **NASA CONTRACT CHANNEL**—live NASA mission and mission-related events coverage (6.8) (operated only during ongoing missions)
TR—22 **ARMED FORCES SATELLITE NETWORK**—various network & independent programming (6.8)

Audio Subcarrier Services on SATCOM 2R

TR—22 **AFRTS RADIO NETWORK** (Armed Forces Radio & Television Service)(5.94 mono)

GTE SPACENET 2 (69°W)

Polarization:
C-Band (36 Mhz): Horizontal
C-Band (72 Mhz): Vertical
Ku-Band (72 Mhz): Horizontal

C-BAND/36 MHZ TRANSPONDERS:

NO VIDEO

C-BAND/72 MHZ TRANSPONDERS:

TR—17L(18) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)
TR—17U(20) **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)

KU-BAND/72 MHZ TRANSPONDERS:

TR—20 **FLORIDA NEWS NETWORK**—news express service pool (6.2/6.8)
TR—21 **TIE—IN NETWORK**—Texas state interactive network (6.2/6.8)
TR—22 **OCCASIONAL TRANSMISSIONS**—sports events, news & network feeds (6.2/6.8)

Numbers appearing in parens immediately following transponder numbers for WESTAR, COMSTAR and ANIK satellites indicate **actual dial position** for that transponder on a typical 24-channel satellite receiver.

Numbers in parens immediately following programming description indicate **audio subcarrier(s)** used for that particular service.

SUBSCRIPTION INFORMATION

THE SATELLITE CHANNEL CHART is published by WESTSAT Communications every other month, six (6) times a year. Subscriptions via first class mail are available directly from WESTSAT Communications, P.O. Box 434, Pleasanton, CA 94566. 1-year subscription rates: $19 (US), $24 (International via air mail). Payment, in U.S. funds only, must accompany all orders.

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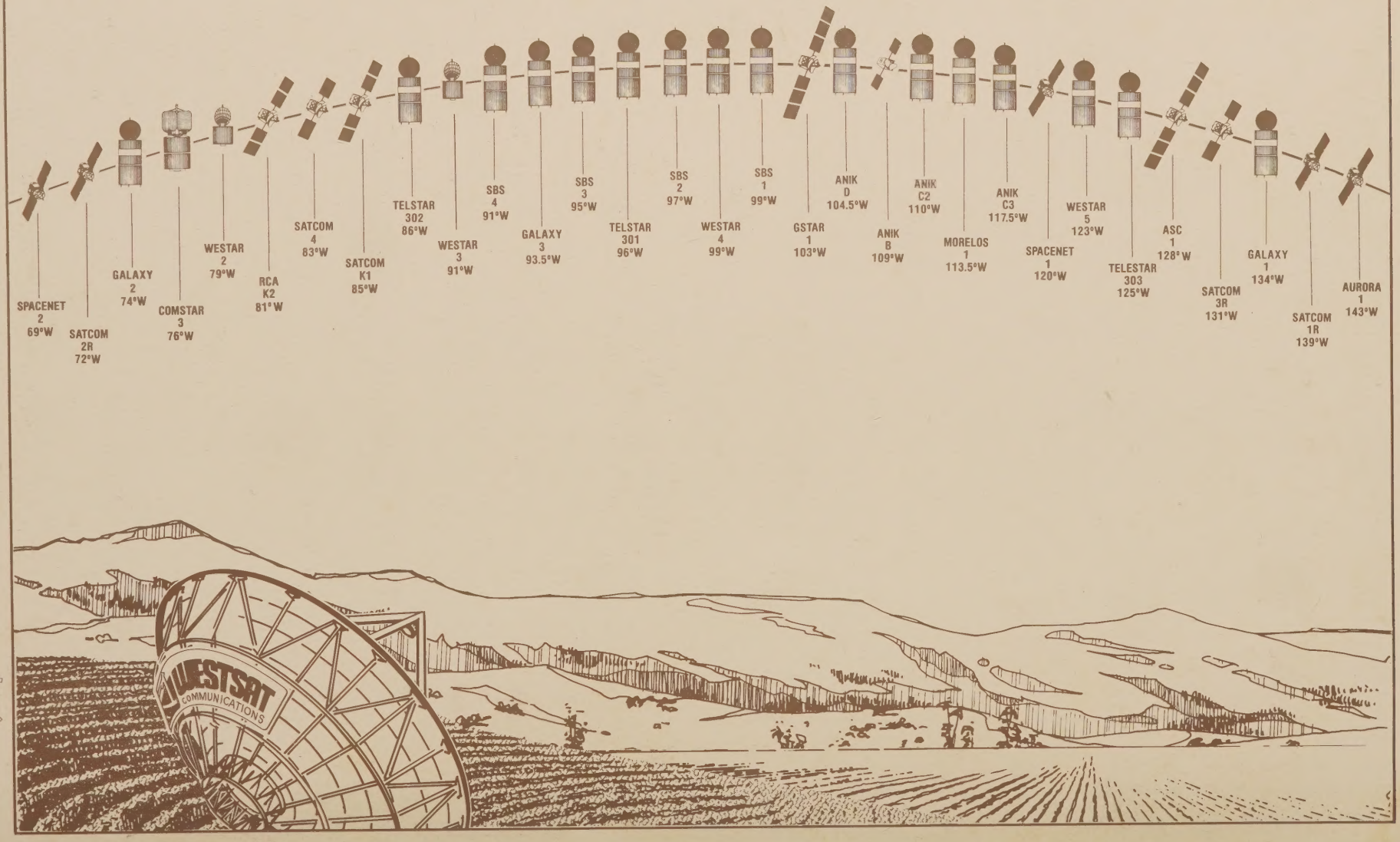
WESTSAT COMMUNICATIONS

Charting The Satellites



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